Museum Lighting Resources



iTunes University "Museum Lighting"



SMITHSONIAN AMERICAN ART MUSEUM

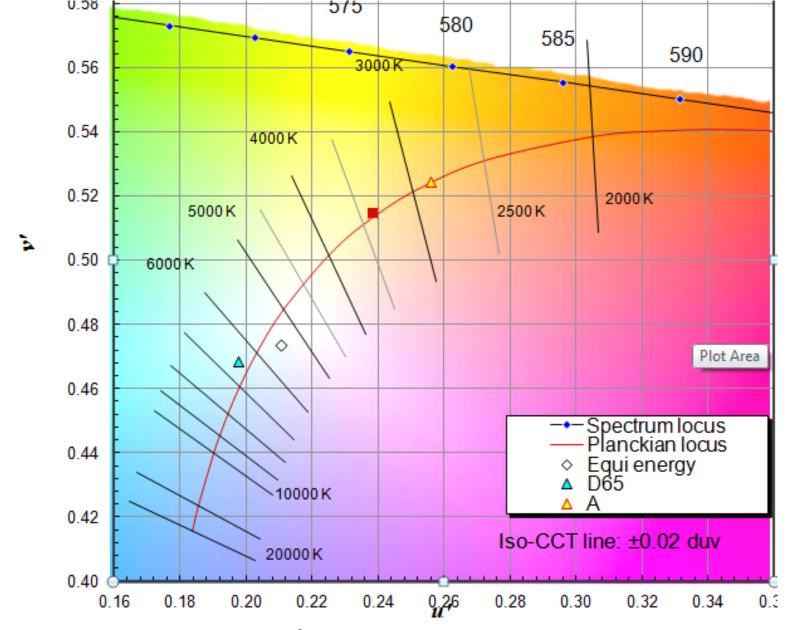
Scott Rosenfeld RosenfeldS@si.edu

Properties of light that effect how we see COLORED objects

1. Illuminance

2. Color Rendering

3. Chromaticity



ANSI C78.377-2008 Tolerances

- ± .0006 Du'v'
- ± 145K at 2700 Kelvin

Spectrometers and Eyes









COLOR RENDERING



CHROMATICITY



























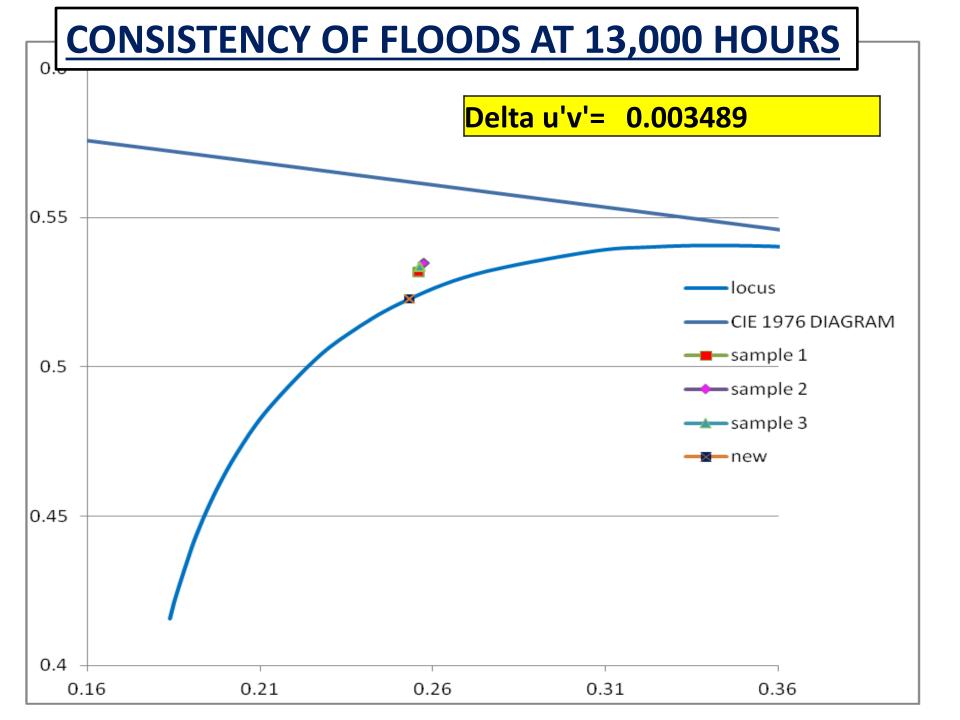
EARLY MODERNISM GALLERY. 16'4" CEILING





PAR30/ 3000K LAMP WAS EQUIPPED WITH INTEGRAL THEMISTOR







Color Maintenance Nightmare: PAR30/SP, PAR30/FL, MR16 (RIGHT TO LEFT)

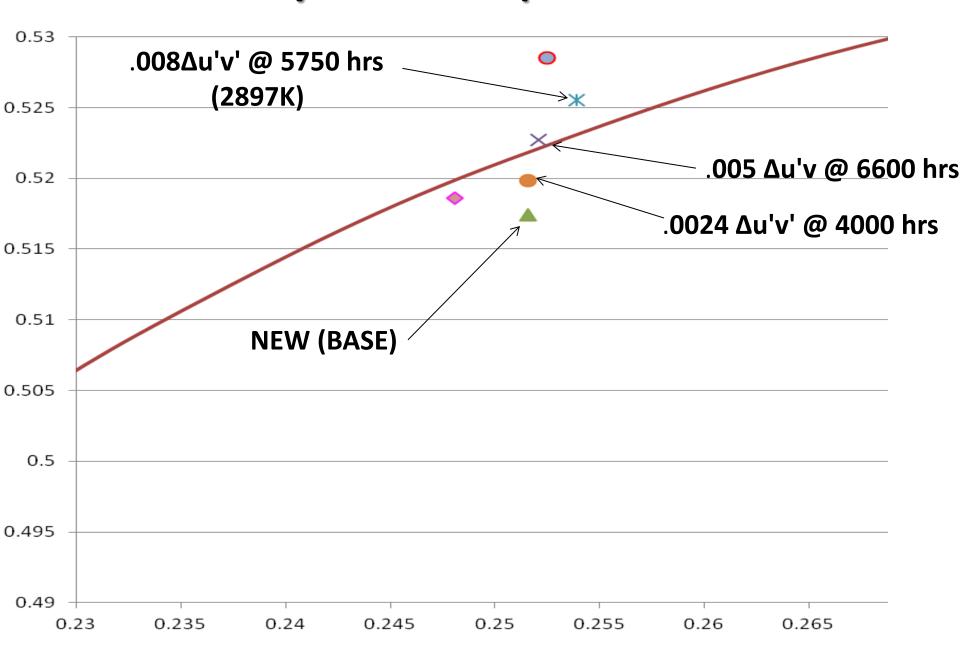
Photo from file, not from gallery with color changes.



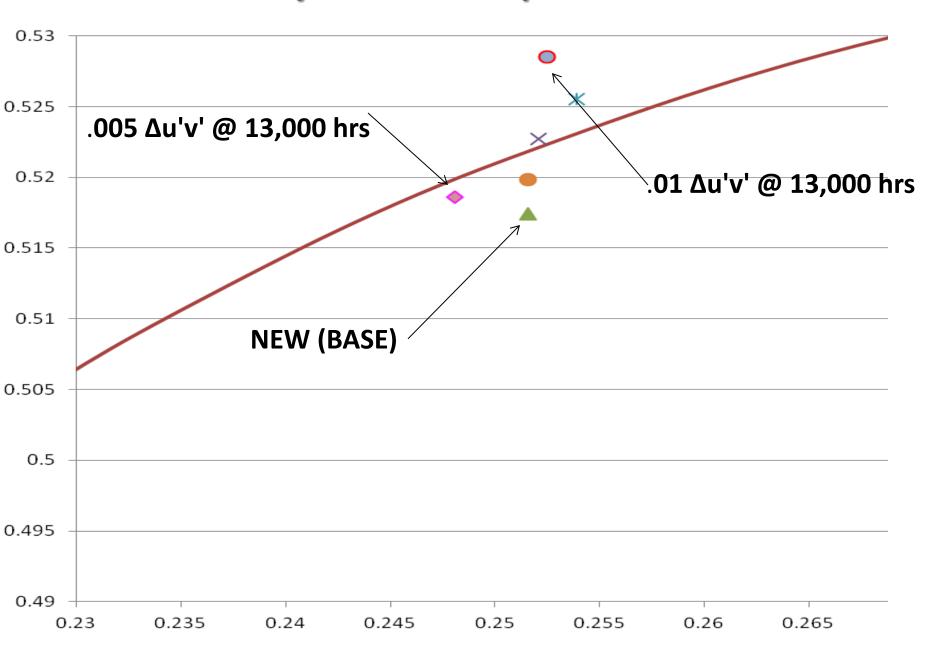
Color Maintenance Nightmare: PAR30/SP, PAR30/FL, MR16 (RIGHT TO LEFT)

Photo from file, not from gallery with color changes.

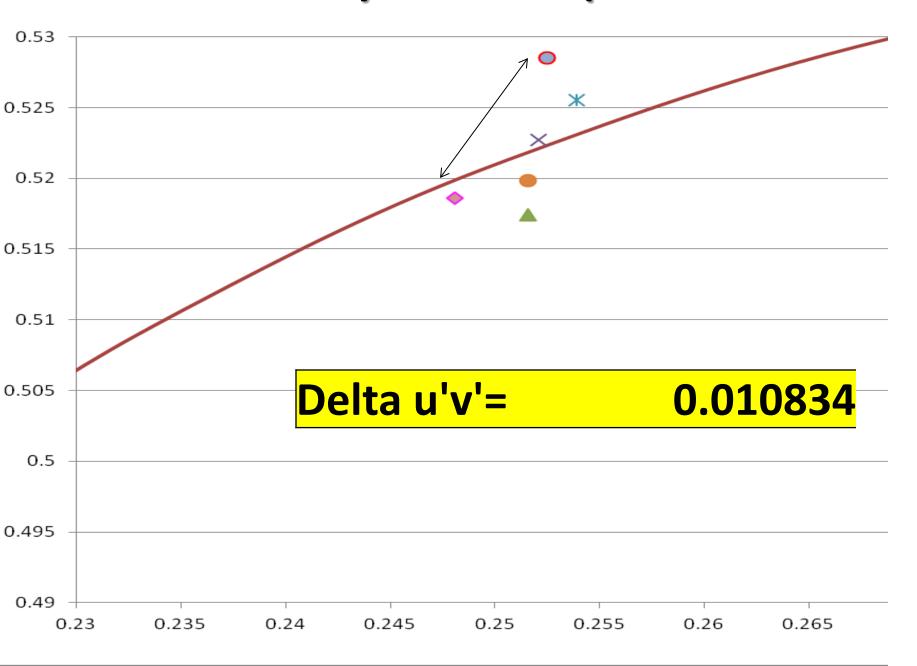
Color Stability of PAR30 Spots – over time



Color Stability of PAR30 Spots – over time



Color Consistency of PAR30 Spots – OVER TIME

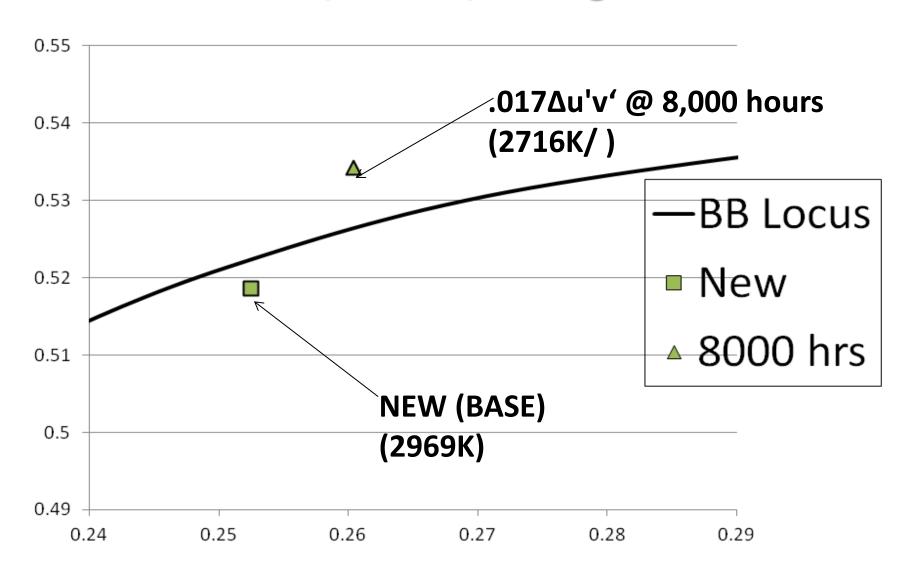




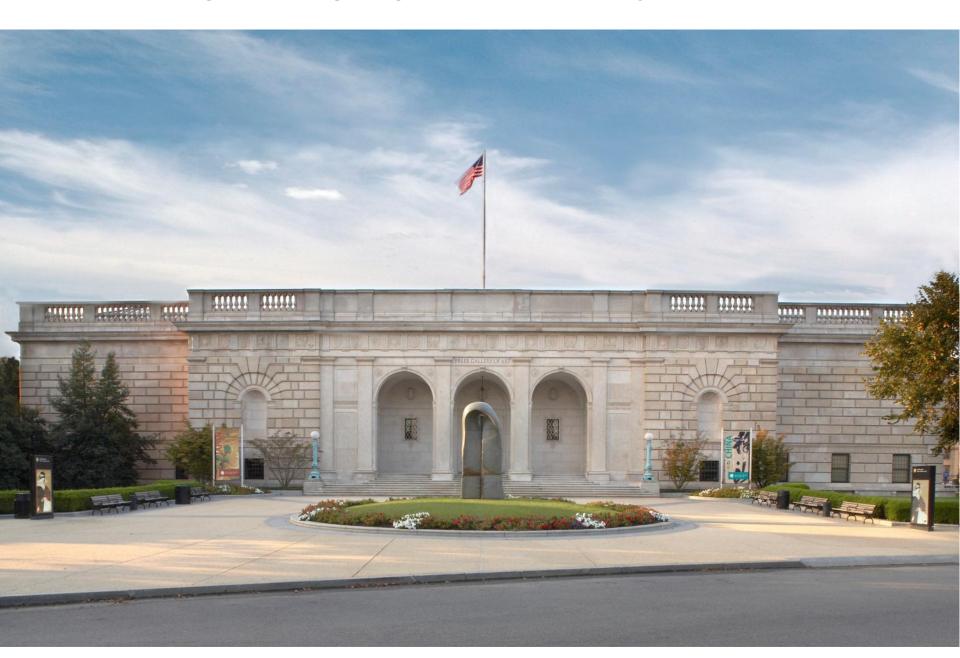
HIRSHHORN MUSEUM AND SCULPTURE GARDEN



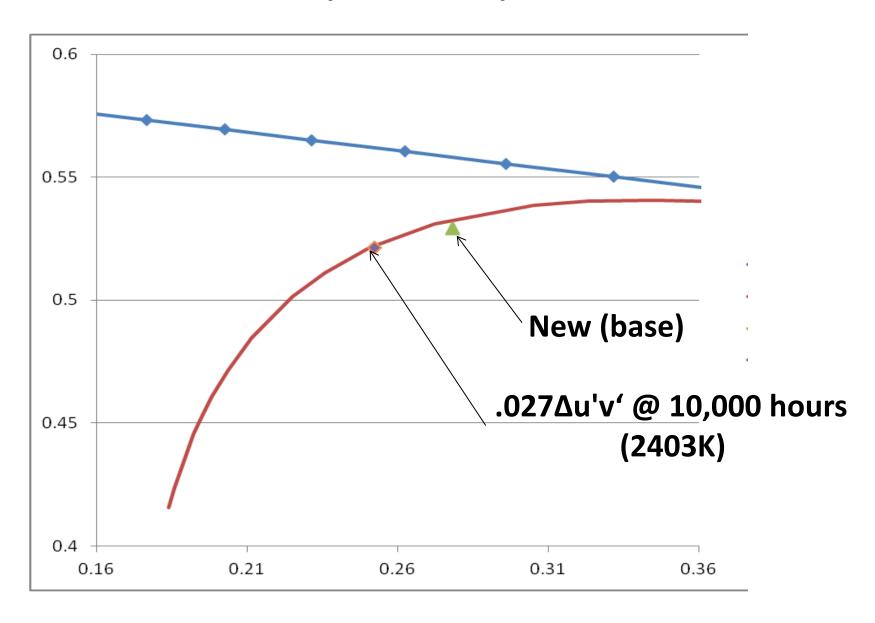
PAR38/3000K /15 degree



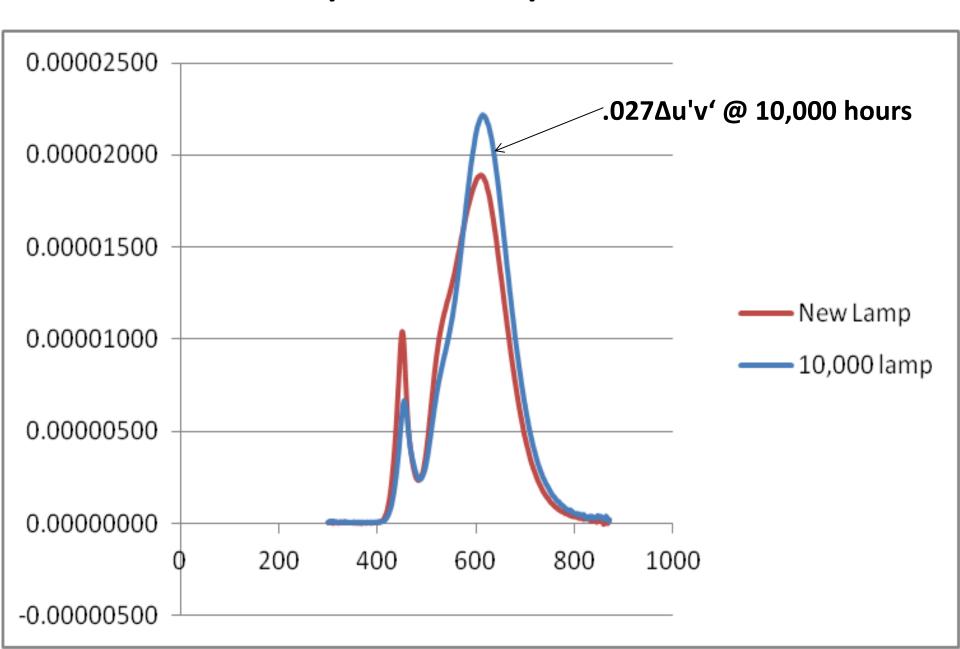
FREER GALLERY OF ASIAN AND AMERICAN ART



PAR38 LAMP/ 35 DEGREE/ 20.3 WATTS



PAR38 LAMP/ 35 DEGREE/ 20.3 WATTS



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